

## **SECTION J-26**

### **MANAGEMENT OF POST-DD250 PROPERTY**

This attachment (reference Clause G.16) defines the items that will be included and accounted for as well as excluded from Management of Post-DD250 Property. The primary tracking mechanism will be the GOLD (inventory management database) system used for inventory management, viewing the International Space Station as a separate segregation code and distinguishing between installed items and spare items.

#### **Items included for Management of Post-DD250 Property**

##### **A. Orbit Support Equipment (OSE)**

These are hardware items on orbit to support operations such as Extravehicular Activities (EVAs). Most of these items are covers or containers to protect items from damage. Some other examples of OSE are:

- Portable foot restraint
- Power data grapple fixture
- Temporary power fixtures

The number of items in this category is not currently known, but both OSE and FSE are believed to be in the neighborhood of 200 items.

These items will be included in Boeing Post DD250 Property Management.

##### **B. Flight Support Equipment**

Flight Support Equipment is similar to OSE and includes items required to transport equipment from ground to orbit. Most of the items are protective containers and covers. They may also be used to “condition” equipment such as temperature control or “trickle charge” to keep components warm. Other examples are “Express Pallets” and fixtures in the cargo bay. These items will be included in Boeing Post DD250 Property Management.

##### **C. Orbital Replacement Units (ORUs)**

ORUs will receive a high level of tracking and reporting in Post DD250 Property Management. ORUs will be identified in the inventory management database (GOLD) and cost information will be provided for the financial aspects of Post DD250 Property Management. Movement of ORUs from ground to ISS or back down will be updated in the GOLD system using segregation codes (OBI for On-Orbit Installed or OBS for On-Orbit Spare) based on the Launch and Return Manifests for each trip to ISS.

Examples of these ORUs are:

- heat exchanger
- radiator
- pump module
- multiplexer-demultiplexer
- GFE (Government Furnished Equipment) ORUs will be included in this category

**D. Shop Replaceable Units (SRUs)**

SRUs that may be a “Remove and Replace” while on orbit will be included in on-orbit accountability. These are items that are removable from an ORU once the ORU has been released, and will have spares stored on orbit for intermediate level maintenance actions. They will also be categorized by OBI or OBS segregation codes within the GOLD system.

An example could be a multiplexer card, which can be replaced once the multiplexer is removed from the rack.

SRUs supplied as GFE List Items will be tracked in this category

**E. Payload Items**

These are items that are used for conducting the primary business of the ISS, which is performing scientific research and technology development in space. Payload support hardware consists of payload facility racks, transportation racks (which remain on-orbit for a short time) and Laboratory Support Equipment, such as freezers, instruments, and microscopes. These items will be included in Boeing Post DD250 Property Management, but experiments conducted on Station will not be in Post DD250 Property Management.

**F. Crew Health Care Hardware**

Crew Health Care hardware, which is expected to remain on station for the life of the program, will be included in Boeing Post DD250 Property Management. This hardware includes:

- Treadmill Assembly
- Heart rate monitor
- IRED (Interim Resistance Exercise Device)
- CEVIS (Cycle Ergometer/Vibration Isolation System)
- Defibrillator
- Blood pressure/ECG monitor

Boeing will track all Crew Health Care Hardware on-orbit. Boeing Post-DD250 Property Management will report year-end value of these items while on-orbit. However, sustaining engineering and actual accomplishment of repairs, procurement of spares, and any ground warehousing of these items would remain with Wyle.

### **Items not included in Boeing Post-DD250 Property Management**

- **Crew Health Care System Consumables (CheCS)**

These are health care items provided primarily by Wyle Labs. Wyle reports that they ship to USA, Spacehab, or USA, depending on where it will be loaded on the shuttle. However, they also report that they have a sustaining engineering function with a presence at the MER, and they will provide on-orbit accountability for consumable CHECS items. Examples of these items are:

- medical supplies
- surface sampler kits
- sample containers

- **Non-consumable material not accountable to NASA 15-10000**, such as cargo transfer bags (PGOC)

- **Flight Crew Equipment**

These are a variety of items that are used by the crew, in most cases hand held, such as

- Cameras, TVs, and related cabling and connectors, film, lenses, adapters, etc..
- Space suits and consumables such as oxygen, filters, etc.
- Consumables, such as water, food, batteries of many sizes
- Personal hygiene items such as clothes, washcloths, towels
- Galley in mid-deck (bolted in)
- Sleep stations
- EVA tools (such as wrenches, diagnostic tools, bags, provided by Lockheed Martin from vendors, of which Ham Sundstrand is one)
- IVA tools (provided by Snap-On via NASA contract with Lockheed Martin)
- Umbilical hoses, some bags, liners, cushions, foam inserts

In some cases, these items have been procured by NASA and will be turned over to USA for accountability at a later time.

- **Software** (Not in Federal Acquisition Regulations)

- **IP – owned hardware** (BSCO/PGOC)

- **Payload items used in experiments** (Experimenter)

- **IMAX-3D Items**

These items are property of IMAX, but are delivered and accounted for through Lockheed Martin, who also track items on-orbit, spares, and arrangements for items returned from orbit.

The following table summarizes where the accountability resides for the various categories.

<u>Category</u>	<u>Prime Accountability</u>	<u>Non-Prime Accountability</u>
OSE (including GFP items)	x	
FSE (including GFP items)	x	
ORUs (including GFP ORUs)	x	
SRUs (including GFP SRUs)	x	
Payload ex. Experiments	x	
IP-owned	*	IP
CheCs	Hardware	Consumables (Wyle)
FCE		SFOC
Experiments		Experimenter
Software		Non Accountable in FAR
Logistics Payload Carriers		CAPPS
IMAX/3D		Lockheed-Martin

- If accountability is transferred to Boeing/NASA